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NOTICE OF ALLOWANCE AND FEE(S) DUE

7500

05/06/2004

MATTINGLY, STANGER & MALUR, P.C. 1800 Diagonal Road, Suite 370 Alexandria, VA 22314

EXAMINER
OWENS, DOUGLAS W

PAPER NUMBER

ART UNIT

DATE MAILED: 05/06/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/046,446	01/16/2002	Toshio Miyamoto	T&A-110	4041

TITLE OF INVENTION: SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD OF THAT

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	08/06/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail

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or Fax

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

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05/06/2004

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United
Chatag Dagtal Camuca with cutticient postabe for first class man in an envelope
addressed to the Mail Ston ISSUE FEE address above, or being facsiming
transmitted to the USPTO, on the date indicated below.

(Depositor's na

i .		(20)
		(Signature)
		(Date)
UTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

ATTORNEY DOCKET NO. FIRST NAMED INVENTOR FILING DATE APPLICATION NO. 4041 T&A-110 Toshio Miyamoto 10/046,446 01/16/2002

TITLE OF INVENTION: SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD OF THAT

APPLN, TYPE	SMALL ENTITY	ISSUE FEE		PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330		\$300	\$1630	08/06/2004
EXAMINER		ART UNIT		CLASS-SUBCLASS		
OWENS, DOUGLAS W		2811	2811 257-693000			
. Change of correspondence address or indication of "Fee Address" (37 ER 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		names of agents OR firm (havin	ting on the patent front page up to 3 registered patent, alternatively, (2) the name ag as a member a registered the names of up to 2 register agents. If no name is listered.	attorneys or 1 c of a single I attorney or 2 stered patent		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below been previously submitted to the USPTO or is being sub (A) NAME OF ASSIGNEE	w, no assignee data will appear on the omitted under separate cover. Complet (B) RESIDENCE: (CIT	1011 01 11110 101111 11		n assignment has
Please check the appropriate assignee category or categories		individual	corporation or other private group entity	government
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the am			
☐ Publication Fee	Payment by credit	card. Form PTO-	2038 is attached.	
☐ Advance Order - # of Copies	☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number(enclose an extra copy of this form).			
Director for Patents is requested to apply the Issue Fee and (Authorized Signature)	(Date)	any previously i	paid issue fee to the application identified about	
NOTE; The Issue Fee and Publication Fee (if required other than the applicant; a registered attorney or agen interest as shown by the records of the United States Pate	ent and Trademark Office.			
This collection of information is required by 37 CFR I obtain or retain a benefit by the public which is to file application. Confidentiality is governed by 35 U.S.C. 122 estimated to take 12 minutes to complete, including gat completed application form to the USPTO. Time will case. Any comments on the amount of time you resuggestions for reducing this burden, should be sent to Patent and Trademark Office, U.S. Department of 22313-1450. DO NOT SEND FEES OR COMPLET. SEND TO: Commissioner for Patents, Alexandria, Virgin	.311. The information is required to (and by the USPTO to process) an 2 and 37 CFR 1.14. This collection is hering, preparing, and submitting the vary depending upon the individual quire to complete this form and/or the Chief Information Officer, U.S. Commerce, Alexandria, Virginia ED FORMS TO THIS ADDRESS. nia 22313-1450.			
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10/046,446	01/16/2002	Toshio Miyamoto	T&A-110	4041	
75	90 05/06/2004		EXAM	INER	
	TANGER & MALUI	OWENS, DOUGLAS W			
1800 Diagonal Road, Suite 370			ART UNIT	PAPER NUMBER	
Alexandria, VA 22	314		2811		
			DATE MAILED: 05/06/2004	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 120 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 120 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)			
	10/046,446	MIYAMOTO ET AL.	·		
Notice of Allowability	Examiner	Art Unit			
	Douglas W Owens	2811			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communical IGHTS. This application is subject and MPEP 1308.	application. If not includ tion will be mailed in due	ed course. THIS		
1. This communication is responsive to the amendment filed	<u>repruary 5, 2004</u> .				
2. The allowed claim(s) is/are <u>5-19 and 21-24</u> .					
3. \boxtimes The drawings filed on <u>16 January 2002</u> are accepted by th	e Examiner.				
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	e been received. e been received in Application No cuments have been received in the of this communication to file a re	 nis national stage applica			
 5. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must be subminformation. 	es reason(s) why the oath or decl	ER'S AMENDMENT or It aration is deficient.	NOTICE OF		
(a) including changes required by the Notice of Draftspers		ΓΟ-948) attached			
1) hereto or 2) to Paper No./Mail Date		·			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	l.84(c)) should be written on the dra the header according to 37 CFR 1.1	awings in the front (not th 21(d).	e back) of		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERIA FOR THE DEPOSIT OF BIOLOG	L must be submitted. BICAL MATERIAL.	Note the		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summ Paper No./Mail	Date	O-152)		
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 		/			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	9. Other SUPERV	EDDIE LEE ISORY PATENT EXAMINATION CENTER 2800	IER		

Application/Control Number: 10/046,446

Art Unit: 2811

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Dan Stanger on April 22, 2004.

The application has been amended as follows:

in line 2 of claim 22, delete "one" and insert --a--; and

in line 12 of claim 22, delete "later" and insert -- layer--

Allowable Subject Matter

2. Claims 5 – 19 and 21 – 24 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas W Owens whose telephone number is 571-272-1662. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Art Unit: 2811

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DWO

EDDIE LEE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800